

CHBE 568 001 F19

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Learning Outcomes:

- Understand the intersection of resource extraction, energy conversion, and materials science
- Develop the ability to review and explain a process flowsheet
- Learn the key chemistries found in industrial processes
- Learn the role of catalysis in industrial chemistry
- Learn the major reactor designs found in industrial processes
- Learn how markets work for key fuels, chemicals, and materials
- Gain appreciation of the history of the resource extraction, fuel, chemicals, and materials industries

Instructor

- Gerald (Gerry) McGlamery Jr.
- AEL (Abercrombie Engineering Laboratory) B240
- gerald.mcglamery@rice.edu

Logistics

- Schedule: Mon/Wed 1400-1515
- Room: HRG (Robert R. Herring Hall) 125
- No class on August 28
- Office hours:
 - Monday and Wednesday, 1300-1400
 - By appointment

Required Textbook

- Moulijn, Jacob, et al. *Chemical Process Technology*, 2nd ed. Chichester: John Wiley & Sons (2013).
 - Purchase at Amazon or direct from Wiley ([Links to an external site.](#))
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Grade Basis

Exams	60 %
Presentation	20 %
Homework	10 %
Classroom discussion	10 %

Honor Code and Ethics Policy

- All students will be held to the standards of the Rice Honor Code, a code that you pledged to honor when you matriculated at this institution. If you have forgotten the details of this code and how it is administered, you should consult the [Honor System Handbook](#).
- Within the bounds of the Rice Honor Code:
 - You may consult with each other for homework with regard to
 - Understanding requirements
 - Formulating approaches

- You may not consult during exams
 - You may not copy each other's work for homework, papers, or exams
- The most important quality you have to offer your employer is your integrity

Exams and Presentation

- We will have four exams, including the final exam
 - The final exam will be comprehensive
 - Final exam: TBA
- Exam problems will be designed for solution by calculator, when applicable
 - No laptops
 - No phones with calculator apps
- Work product standards are applicable
- Exams are closed book
 - You will be given all formulas
 - No other notes are allowed
 - Turn in the formula sheet(s) with the exam
- Copies will be made and kept of your exams
- You will have one presentation chosen from a list of derivatives

Homework Policy

- Homework will generally be due once each week, on a Monday
- If Monday falls on a Rice holiday, it will be due on Wednesday

Regrade Policy

- Submit a request in writing to me within one week of return
- All work will be regraded, not just the work in question

Classroom Participation and Attendance Policy

We will be discussing topics where different approaches can give different answers. Classroom discussion is important to understanding the differences. Reading will be assigned to facilitate the discussion. Your preparation for and participation in the discussion is expected and part of your grade.

Attendance in class is expected and is part of your classroom participation grade. You will lose one point for each class that you miss on your classroom participation grade, up to the full 10 % of credit for classroom participation. You can avoid this penalty if you discuss the need for your absence with the instructor before it occurs and obtain approval to miss the class. You will still be responsible for the lecture material, classroom discussion, and homework due on that particular class day.

Work Product Standards

- Submit all homework and papers through Canvas
- All written work should be clear and easy to follow
- If I can't read it, I won't grade it
- Late work is unacceptable
- 10 % off for each day late
- Cite your data sources in all work; use a consistent format
- Use only significant figures; egregious errors will lose points
- Grammar errors will be marked; egregious errors will lose points
- If in doubt, ask — in advance

Disability Policy

If you have a documented disability or other condition that may affect your academic performance you should:

- Make sure this documentation is on file with the Disability Resource Center (Allen Center, Room 111 / adarice@rice.edu / x5841) to determine the accommodations you need
- Talk with me at the beginning of the semester to discuss your accommodation needs.

Syllabus Change Policy

This syllabus is only a guide for the course and is subject to change with advanced notice.

Course Summary:

Date	Details	
Mon Aug 26, 2019	 Syllabus	due by 10am
	 Tools for Understanding	due by 2pm
Wed Aug 28, 2019	 No class	12am
Mon Sep 2, 2019	 Labor Day - No class	12am
Mon Sep 9, 2019	 Ethanol Cash Cost	due by 2pm
	 Fuel Value of Ethane	due by 2pm
	 The Energy World	due by 2pm
Mon Oct 14, 2019	 Fall Recess	12am
Tue Oct 15, 2019	 Fall Recess	12am